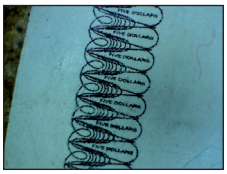
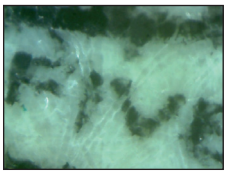
SCIENCE SERVICES

ProScope HR

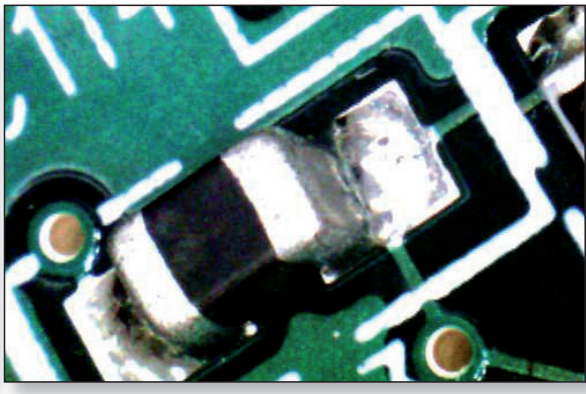
high resolution handheld microscope





The best high resolution handheld microscope

The ProScope HR is the world's first handheld digital microscope and has been a mainstay in science education, law enforcement and manufacturing quality control worldwide since 2001.



Features

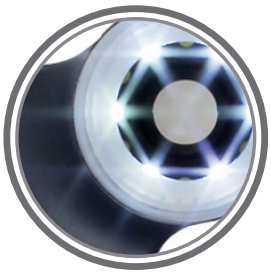
Mobile

Through various connection options the ProScope models are ideally suited for mobile use. They require no external power supply.

Flexible

With retrofit lenses, adapters and excellent software compatibility the ProScope will adjust even to your future needs.

High resolution



Professional sensors, LED lighting and optimized lenses ensure the best possible image quality with up to 400x magnification.

Models

ProScope Micro Mobile
The first professional microscope for mobile devices.

ProScope Mobile
The first wireless handheld digital microscope for iPad, iPhone and iPod touch.

ProScope HR & HR2
True high resolution digital microscopes.

ProScope Micro Mobile

The first professional microscope for mobile devices.

The ProScope Micro Mobile attaches to your mobile device with our specially designed sleeves to provide maximum accuracy. Professional-level magnification is achieved through the use of superb glass optics and precision design. The rechargeable, long-lasting lithium-ion battery keeps the power source separate from your device's own battery.

The new ProScope Micro-Mobile is the first professional mobile microscope for our mobile device world. The ProScope Micro-Mobile uses custom coated glass optics to work with your onboard camera and provide superb quality images up to 80X. Built-in LEDs adjust to reduce reflection and are powered by a sleek rechargeable battery for up to 5 hours continuous use. Made with impact resistant Nylon and ABS for years of field, lab, classroom and exam room use.

- 20x to 80x magnification via Edmund pro level glass optic (specially coated lenses for better image quality and colour reproduction).
- Adjustable LEDs to reduce surface reflection and powered by a sleek onboard Lithium Ion battery for 5 hours of continuous use.
- USB charging cable to recharge to full capacity in 2 hours.
- Built in desktop stand for hands free use.
- Made with impact resistant Nylon and ABS for years of field operation.
- 1 year warranty.

Specifications - ProScope Micro Mobile

Compatibility: iPhone 5, iPhone 4/4S, iPad mini, iPad 2nd/3rd/4th generation and iPod touch 4th generation. Also works with other camera-equipped Smartphones and tablets (additional adapters may be required).

Lens: ***PMM-2080X - 20-80x Lens***
Digital Zoom Magnification Range of 20x to 80x.
Precision glass optics for sharp image detail and accurate color reproduction.

Buttons and Switches:

Light Switch A/B
A: 6 LEDs
B: 6 LEDs (anti-reflex)

Rocker Switch
Increases/Decreases LED intensity

Rocker Switch - Center Button
Turns LEDs and charging circuit ON/OFF

LEDs: ***12 White LEDs***
6 illuminated in A switch position
6 illuminated in B switch position (for use with optional polarizing filter)

Indicator LED: Indicates battery charge status

While Charging:	***While operating:***
<20% = Blinking Red	<20% = Blinking Red
<50% = Blinking Yellow	<50% = Blinking Yellow
<99% = Blinking Green	<=100% = Blinking Green
100% = Solid Green	

Ports: ***USB MiniB (F) -*** For connecting USB cable to charge internal battery

Power: ***Rechargeable Internal Lithium-ion Polymer Battery - 3.7V 340mAh***
Continuous operation at full LED intensity, approx 5 hours
Typical use operation, several days
Charging time from depleted state to full charge, approx 2 hours

MiniB (M) to USB A (M) USB cable
Powers LEDs when battery has no charge
Charges Battery from standard computer USB port or charger with USB 5-volt port

Accessories: ***BT-PMM-2080X*****:** 20x-80x 20x-80x Lens
BT-PMM-IP5SL: iPhone 5 Adapter
BT-PMM-MINISL: iPad mini Adapter
BT-PMM-IPADSL: iPad Adapter
BT-PMM-IP4SL: iPhone 4/4S Adapter
BT-PMM-IPT4SL: iPod touch 4th gen. Adapter
BT-PMM-POLAR: Polarizing Filter
BT-PMM-LCS: Replacement Nylon lens cone + stand set

Kit configurations: PMM Base Unit, 20x-80x Lens, Adapter, Adjustable Nylon Lens Cone, Stand, USB Charging Cable

ProScope Mobile

The first wireless handheld digital microscope for iPad, iPhone and iPod touch.

Wi-Fi Secure - The ProScope Mobile creates it's own Static IP network and cannot be accessed by any other WiFi networks. What goes on in the classroom, boardroom, exam room or crime scene is secure.

The ProScope Mobile is the first wireless handheld digital microscope designed for use with your iPad, iPhone and iPod touch. The ProScope Mobile allows users to establish a secure static IP WiFi network. You can simultaneously view live images and capture stills on 254 iOS devices. The Pro-Scope Mobile has many options and uses the same lenses as the ProScope HR and HR2.

- Magnification: Varies based on attached lens.
- Resolution: 320x240 pixels (QVGA), 640x480 pixels (VGA)
- Resolution frame rate: QVGA approx. 15fps (it changes with signal quality and the used device.)
- Sensor: ¼ inch Colour CMOS 5 Megapixel
- Illumination: LED (three positions)
- System requirements: Apple iOS on iPhone, iPod Touch, iPad

Specifications - ProScope Mobile

Features

Imager:	1/4 inch high resolution 5 Mp color sensor
Interface:	Wi-Fi, IEEE802.11b
Magnification:	varies based on attached lens
Capture Button:	initiates still
LED Control:	3-position on/off switch for lens LEDs
Camera Mount:	standard tripod mount. 1/4”-20 threads
Lens Release Button:	disengages lens lock pin for lens removal

Technical Details

Still Capture:	320 x 240 pixels (QVGA), 640 x 480 pixels (VGA),
Power Consumption:	2.5W withstandard lens

Dimensions

Length:	15,3 cm
Width:	4,6 cm
Weight:	130 g (without batteries)

Compatibility

iPhone, iPod Touch, iPad

Package

ProScope Mobile
if applicable choosen lens

ProScope HR & HR2

True high resolution digital microscopes.

The ProScope HR and HR2 are the most widely used true high resolution digital microscopes in the world. Our custom Aptina imager is the core of the highest quality and professional level of handheld microscopy. From CSI to classrooms, manufacturing quality control and medical labs worldwide, the ProScope HR and ProScope HR2 are US made and the standard of reliable American technology.

The ProScope HRs are made in Oregon, RoHS compliant (lead-free), UVC plug and play and include free Windows and Mac software. The bundled software will capture stills, video and time lapse. It can also be used live over the Internet with programs like Skype™ and Apple iChat™.

ProScope lenses range from 0-10x, 30x, 50x, 100x, 200x and 400x.
Bodelin also has adapters for borescopes and analog microscopes. Bodelin also offers three types of optional measurement software accurate to within 10 microns and pre-calibrated for all ProScope lenses.

The ProScope HR has been seen on CSI, CSI: NY, CSI: Miami, NCIS, Oprah and 10 feature films since it emerged in 2006. Those first models are still solving crimes, educating students, examining patients and quality testing 39% of all technology made today.

ProScope HR2

The ProScope HR is the first true high resolution digital microscope in the world. Using a custom Aptina™ imager is the key to providing true resolution up to 1280x1024.

- Magnification: Varies based on attached lens.
- Resolution: 320x240 pixels (QVGA), 640x480 pixels (VGA), 1280x1024 pixels (SXGA)
- Frame rate: 320x240 pixels - 30 frames/second(QVGA), 640x480 pixels - 15 frames/second (VGA), 1280x1024 pixels - 3,75 frames /second(SXGA)
- Sensor: 1.3 Mp color, 1/4 inch CMOS high resolution sensor
- Illumination: LED (three positions)
- System requirements: USB 2.0 /1.1, Mac OS X 10.4.8 (and up), PowerPC G4, G5 or Intel Mac, Quicktime 7 (and up), Windows XP Service Pack (and up), Pentium 4 or equivalent or faster, DirectX 9.0 (and up)

ProScope HR

The ProScope HR2 features a state-of-the-art, Aptina™ imager which was originally made for surveillance, with large pixels that take in more light than other imagers on the market. The Bodelin engineering team customized this imager to allow extensive imaging adjustment and LED intensity control. The most impressive feature is the ability to actually stream true pixels at higher resolutions.

- Magnification: Varies based on attached lens.
- Resolution: 320x240 pixels (QVGA), 640x480 pixels (VGA), 1280x1024 pixels (SXGA), 1600x1200 pixels (UXGA)
- Frame rate: 320x240 pixels - 30 frames/second (QVGA), 640x480 pixels - 15 frames/second (VGA), 1280x1024 pixels - 3,75 frames /second (SXGA), 1600x1200 pixels - 2,5 frames /second (UXGA)
- Sensor: 2 Mp color, 1/3 inch CMOS high resolution sensor
- Illumination: LED (three positions)
- System requirements: USB 2.0, Mac OS X 10.4.8 (and up), PowerPC G4, G5 or Intel Mac, Quicktime 7 (and up), Windows XP Service Pack (and up), Pentium 4 equivalent or faster, DirectX 9.0 (and up)

Specifications - ProScope HR2

ProScope HR

Features

Imager:	1/3 inch high resolution 2 Mp color sensor
Interface:	USB 2.0 Hi-Speed
Magnification:	varies based on attached lens
Capture Button:	initiates still, movie, and time lapse capture in ProScope HR software
LED Control:	3-position on/off switch for lens LEDs
Camera Mount:	standard tripod mount with 1/4”-20 threads
Lens Release Button:	disengages lens lock pin for lens removal

Technical Details

Video Preview:	30 fps at 320 x 240 pixels (QVGA), 15 fps at 640 x 480 pixels (VGA), 3,75 fps at 1280 x 1024 pixels (SXGA) 2,5 fps at 1600 x 1200 pixels (UXGA)
Video Controls:	Brightness, Contrast, Hue, Saturation and Sharpness
Still Capture:	320 x 240 pixels (QVGA), 640 x 480 pixels (VGA), 1280 x 1024 pixels (SXGA), 1600 x 1200 pixels (UXGA)
Video Capture:	30 fps at 320 x 240 pixels (QVGA), 15 fps at 640 x 480 pixels (VGA), 3,75 fps at 1280 x 1024 pixels (SXGA), 2,5 fps at 1600 x 1200 pixels (UXGA)
Power Consumption:	about 400 mA when using a 5V light source

Dimensions

Length:	15,2 cm
Width:	4,5 cm
Length of Cable:	ca. 1,8 m
Weight:	185 g

Compatibility

Mac OS X 10.4.8 (and up)
PowerPC G4, G5 or Intel Mac
QuickTime 7 (and up)
Windows XP Service Pack 2 (and up)
Pentium 4 equivalent or faster
DirectX 9.0 (and up)

Package

ProScope HR2
if applicable choosen lens
Manual and Installations-CD

Productdetails - ProScope HR

ProScope HR

Features

Imager:	1/4 inch high resolution 1.3 Mp color sensor
Interface:	USB 2.0 Hi-Speed
Magnification:	varies based on attached lens
Capture Button:	initiates still, movie, and time lapse capture in ProScope HR software
LED Control:	3-position on/off switch for lens LEDs
Camera Mount:	standard tripod mount with 1/4”-20 threads
Lens Release Button:	disengages lens lock pin for lens removal

Technical Details

Video Preview:	30 fps at 320 x 240 pixels (QVGA), 15 fps at 640 x 480 pixels (VGA), 3,75 fps at 1280 x 1024 pixels (SXGA)
Video Controls:	Brightness, Contrast, Hue, Saturation and Sharpness
Still Capture:	320 x 240 pixels (QVGA), 640 x 480 pixels (VGA), 1280 x 1024 pixels (SXGA)
Video Capture:	30 fps at 320 x 240 pixels (QVGA), 15 fps at 640 x 480 pixels (VGA), 3,75 fps at 1280 x 1024 pixels (SXGA)
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Pentium 4 equivalent or faster
DirectX 9.0 (and up)

Package

ProScope HR
if applicable choosen lens
Manual and Installations-CD

Choose your Kit

HR/HR2/ Mobile	Basic Unit 50	CSI Level 1	CSI Level 2	Lab	Advanced Lab	QC Inspector	QC Lab
Lenses							
1-10x		✔	✔	✔	✔	✔	✔
30x				✔	✔		✔
50x	✔	✔	✔			✔	
100x					✔		✔
200x			✔	✔			✔
400x					✔		
Accessories							
Flexible Stand			✔	✔	✔	✔	✔
C-Mount Adapter				✔	✔		
Mikroscope Tubus Adapter				✔	✔		
SM Software						✔	
LX Software							✔
Case		✔	✔	✔	✔		
Large Case						✔	✔

ProScope Micro Mobile	iPad 2/3/4	iPad mini	iPhone4/4S	iPhone5	iPod touch 4G
Base Unit	✔	✔	✔	✔	✔
20x Lense	✔	✔	✔	✔	✔
Adjustable Nylon Lens Cone	✔	✔	✔	✔	✔
Stand	✔	✔	✔	✔	✔
USB Charging Cable	✔	✔	✔	✔	✔
Sleeve for	iPad	iPad mini	iPhone 4/4S	iPhone 5	iPod touch 4G

Compare all ProScope Models

	ProScope Micro Mobile	ProScope Mobile	ProScope HR2	ProScope HR
Can be used with	iPhone 4/4s/5, iPad 2/3/4, iPad Mini, iPod touch 4G	iPhone, iPad, iPod touch	Mac OS 10.4.8 up / Win XP SP2 up	Mac OS 10.4.8 up / Win XP SP2 up
Interface	Adapter with lens for mobile device	WLAN (IEEE802.11b)	USB 2.0	USB 2.0 / USB 1.1
Max. resolution image	according to mobile device	640x480 (VGA)	1600x1200 pixels	1280x1024 pixels
Max. resolution video	according to mobile device	640x480 (VGA)	1600x1200 pixels @ 2.5 fps	1280x1024 pixels @ 3.75 fps
Sensor	according to mobile device	1/4 inch 5Mp	1/3 inch 2Mp	1/4 inch 1.3Mp
Magnification	20x - 80x	1x - 400x with optional lenses (compatible with ProScope Mobile, HR2, HR)	1x - 400x with optional lenses (compatible with ProScope Mobile, HR2, HR)	1x - 400x with optional lenses (compatible with ProScope Mobile, HR2, HR)

Lenses and Accessories for the HR/HR2/Mobile

1-10x

30Nx

50x

100x

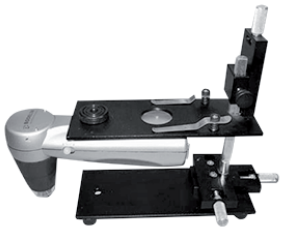
200x

400x

C-Mount Adapter

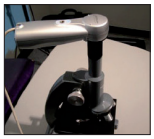
Okular Adapter

Flexibele Stand



XYZ Stand

Microscope connection

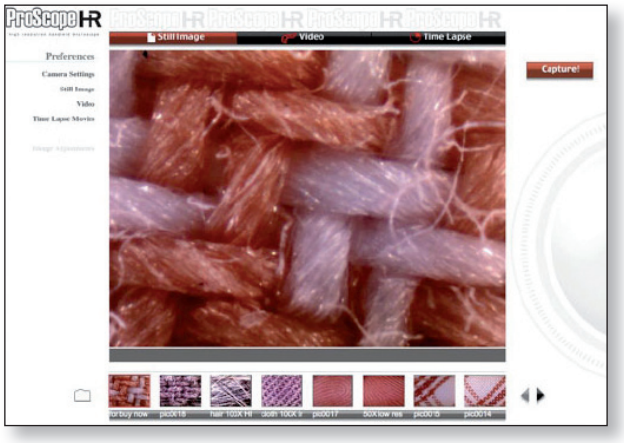


Using the C-Mount- and Lens-Tube-Adapter your ProScope can be connected with most of the usual microscopes. This way you are able to easily digitize your image data.

Software

Every ProScope is shipped with the standard ProScope software for Mac OS X and Windows XP (and newer versions of these operating systems). Free updates are available as downloads on the internet. Features include:

- Switch to any of three resolution settings:
  ProScope HR:
  320 x 240, 640 x 480, 1280 x 1024
  ProScope HR2:
  320 x 240, 640 x 480, 1280 x 1024, 1600 x 1200
- Show live images
- Still image capture
- Video capture
- Time lapse capture
- LED intensity control (HR2 only)
- Preview captured images
- Site license for use on your local network
- Standard image files can be saved in any folder

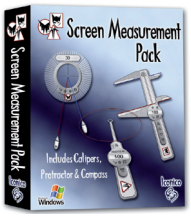


Screenshot - ProScope-Software

Optional Measurement Software

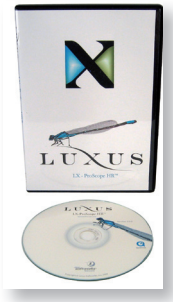
Image Analyzer - **Windows Only**
(Win. XP SP2 and up)

ImageAnalyzer is a powerful multi-featured program designed to work with your original ProScope. Measurements, grids, powerful image enhancement tools and screen capture with voice-over are just a few of its many features.



Screen Measurement Tools
(Mac and Windows)

Screen Calipers, Screen Compass and Screen Protractor are unique on-screen measurement tools that let you measure anything on your computer screen with ultimate accuracy.



LX-PROSCOPE HR
(Windows XP SP2/Vista and up / Mac OS X 10.4.8 and up)

Capture stills, video, time lapse, perform detailed measurement, and annotate your still images with this elegant and sophisticated interface.

Order Information

Product-Nr.	Description	Package
BT-HR	ProScope HR Base Unit without lens	Base Unit
BT-HR50	ProScope HR Base Unit, 50x Lens	Base Unit, 50x Lens
BT-HRLVL1	ProScope HR CSI - Science Level 1 Kit	Base Unit, 50x Lens, 1-10x Lens, Case
BT-HRLVL2	ProScope HR CSI - Science Level 2 Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, flexible Stand, Case
BT-HRLAB	ProScope HR CSI - Lab Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, Lens Tube Adapter, C-Mount Adapter, flexible Stand, Case
BT-HRALAB	ProScope HR CSI - Advanced Lab Kit	Base Unit, 30Nx Lens, 1-10x Lens, 100x Lens, 400x Lens, Lens Tube Adapter, C-Mount Adapter, flexible Stand, Case
BT-HRQC	ProScope HR QC - Inspector Kit	Base Unit, 50x Lens, 1-10x Lens, flexible Stand, Screen Calipers Software, large Case
BT-HRQCLAB	ProScope HR QC - Lab Kit	Base Unit, 1-10x Lens, 30Nx Lens, 100x Lens, 200x Lens, flexible Stand, LX ProScope Software, large Case
BT-HR2	ProScope HR2 Base Unit without lens	Base Unit
BT-HR250	ProScope HR2 Base Unit, 50x Lens	Base Unit, 50x Lens
BT-HR2LVL1	ProScope HR2 CSI - Science Level 1 Kit	Base Unit, 50x Lens, 1-10x Lens, Case
BT-HR2LVL2	ProScope HR2 CSI - Science Level 2 Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, flexible Stand, Case
BT-HR2LAB	ProScope HR2 CSI - Lab Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, Lens Tube Adapter, C-Mount Adapter, flexible Stand, Case
BT-HR2ALAB	ProScope HR2 CSI - Advanced Lab Kit	Base Unit, 30Nx Lens, 1-10x Lens, 100x Lens, 400x Lens, Lens Tube Adapter, C-Mount Adapter, flexible Stand, Case
BT-HR2QC	ProScope HR2 QC - Inspector Kit	Base Unit, 50x Lens, 1-10x Lens, flexible Stand, Screen Calipers Software, large Case
BT-HR2QCLAB	ProScope HR2 QC - Lab Kit	Base Unit, 1-10x Lens, 30Nx Lens, 100x Lens, 200x Lens, flexible Stand, LX ProScope Software, large Case
BT-MOB	ProScope Mobile Base Unit without lens	Base Unit
BT-MOB50	ProScope Mobile Base Unit, 50x Lens	Base Unit, 50x Lens
BT-MOBLVL1	ProScope Mobile CSI - Science Level 1 Kit	Base Unit, 50x Lens, 1-10x Lens, Case
BT-MOBLVL2	ProScope Mobile CSI - Science Level 2 Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, Telescope Stand, Case
BT-MOBLAB	ProScope Mobile CSI - Lab Kit	Base Unit, 50x Lens, 1-10x Lens, 200x Lens, Lens Tube Adapter, C-Mount Adapter, Telescope Stand, Case
BT-MOBALAB	ProScope Mobile CSI - Advanced Lab Kit	Base Unit, 30Nx Lens, 1-10x Lens, 100x Lens, 400x Lens, Lens Tube Adapter, C-Mount Adapter, Telescope Stand, Case
BT-MOBQC	ProScope Mobile QC - Inspector Kit	Base Unit, 50x Lens, 1-10x Lens, flexible Stand, Screen Calipers Software, large Case
BT-MOBQCLAB	ProScope Mobile QC - Lab Kit	Base Unit, 1-10x Lens, 30Nx Lens, 100x Lens, 200x Lens, flexible Stand, LX ProScope Software, large Case

Product-Nr.	Description	Package
BT-10	1-10x Lens	
BT-30N	30x Lens (with Antireflex-Option)	
BT-50	50x Lens	
BT-100	100x Lens	
BT-200	200x Lens	
BT-400	400x Lens	
BT-CMT	C-Mount Adapter	
BT-BORO	Boroscope Adapter	
BT-XYZ	XYZ Stand	
BT-STAND	Flexible Stand	
BT-CASE	Deluxe Carrying Case	
BT-LRGCASE	Large Deluxe Carrying Case	
BT-SMP-WIN	SMP ProScope Edition for Windows	
BT-SMP-MAC	SMP ProScope Edition for MAC	
BT-HRIA	Image Analyzer ProScope Edition for Windows	
BT-HRLX	LX-ProScope HR Software for Windows and MAC	
BT-HRLX	LX-ProScope HR Software for Windows and MAC	
BT-SCWIN	Screen Calipers ProScope Edition for Windows	
BT-PMM-BASE	ProScope Micro Mobile Base Unit	
BT-PMM-IPADK	ProScope Micro Mobile for the iPad 2/3/4, Kit	Base Unit, 20x Lense, iPad Adapter, Adjustable Nylon Lens Cone, Stand and USB Charging Cable
BT-PMM-IPMINIK	ProScope Micro Mobile for the iPad mini, Kit	Base Unit, 20x Lense, iPad mini Adapter, Adjustable Nylon Lens Cone, Stand and USB Charging Cable
BT-PMM-IP5K	ProScope Micro Mobile for the iPhone 5, Kit	Base Unit, 20x Lense, iPhone 5 Adapter, Adjustable Nylon Lens Cone, Stand and USB Charging Cable
BT-PMM-IP4K	ProScope Micro Mobile for the iPhone 4/4S, Kit	Base Unit, 20x Lense, iPhone 4/4S Adapter, Adjustable Nylon Lens Cone, Stand and USB Charging Cable
BT-PMM-IPT4K	ProScope Micro Mobile for the iPot touch 4G, Kit	Base Unit, 20x Lense, iPot 4G Adapter, Adjustable Nylon Lens Cone, Stand and USB Charging Cable
BT-PMM-IPADSL	ProScope Micro Mobile Adapter for the iPad 2/3/4	
BT-PMM-IPMINISL	ProScope Micro Mobile Adapter for the iPad mini	
BT-PMM-IP4SL	ProScope Micro Mobile Adapter for the iPhone 4/4S	
BT-PMM-IP5SL	ProScope Micro Mobile Adapter for the iPhone 5	
BT-PMM-IP4TSL	ProScope Micro Mobile Adapter for the iPot 4G	
BT-PMM-2080X	20-fach Linse for the ProScope Micro Mobile	
BT-PMM-LCS	Adjustable Nylon Lens Cone and Stand for the ProScope Micro Mobile	
BT-PMM-POLAR	Polarizing filter for ProScope Micro Mobile	

You find fourther information and the current prices in our web-store: www.ScienceServices.eu

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